

Please amend the Abstract as follows:

ABSTRACT OF THE DISCLOSURE

The present invention relates to an An apparatus and to a method of polarization dependent analyzing analysis of an optical signal $\{6\}$ transmitted through a DUT $\{10\}$, comprising the steps of: includes splitting the optical signal $\{6\}$ into a first signal part $\{16\}$ having an initial first polarization and a second signal part $\{20\}$ having an initial second polarization, coding the first signal part $\{16\}$ using a first code $\{17, \text{code-1}\}$ and coding the second signal part $\{20\}$ using a second code $\{17, \text{code-2}\}$, providing the coded signal parts $\{16, 6a, 20, 6b, 6c, 6d\}$ to the DUT $\{10\}$, detecting a DUT-signal $\{32\}$ coming from the DUT $\{10\}$ in response to the coded signal parts $\{16, 6a, 20, 6b, 6c, 6d\}$, and determining a first part $\{a, e\}$ of the DUT-signal $\{32\}$ corresponding to the first signal part $\{16\}$ by means of the first code $\{17, \text{code-1}\}$ and determining a second part $\{b, d\}$ of the DUT-signal $\{32\}$ corresponding to the second signal part $\{20\}$ by means of the second code $\{17, \text{code-2}\}$.